Store at –20°C

#2417

Syntaxin 6 Antibody

✓100 µl
(10 western blots)

Cell Signaling TECHNOLOGY®

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

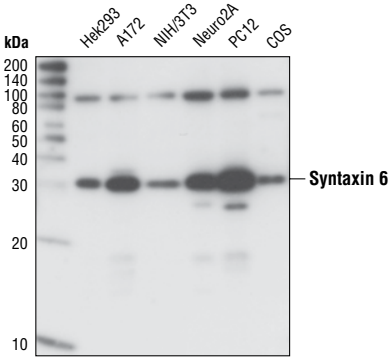
Entrez-Gene ID #10228
Swiss-Prot Acc. #043752

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP Endogenous	H, M, R, Mk	32 kDa	Rabbit**

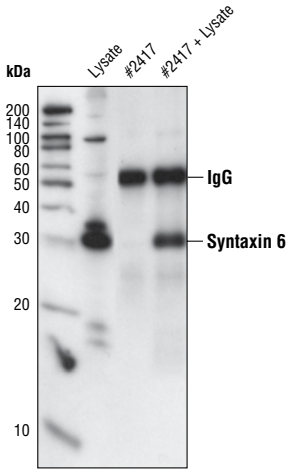
Background: Syntaxin 6 is a ubiquitously expressed S25C family member of the SNARE proteins (1,2). The protein has an amino-terminal H1 domain followed by an H2 SNARE domain and a carboxy-terminal membrane anchor (3). Syntaxin 6 is localized at the trans-Golgi and within endosomes and regulates membrane trafficking by partnering with a variety of other SNARE proteins (3-5). Depending on cell type and SNARE parter, syntaxin 6 has been found to be involved in the regulation of GLUT4 trafficking, neutrophil exocytosis and granule secretion (6-10).

Specificity/Sensitivity: Syntaxin 6 Antibody detects endogenous levels of total syntaxin 6 protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding residue surrounding Tyr140 of mouse syntaxin 6 protein. Antibodies are purified by protein A and peptide affinity chromatography.



Western blot analysis of extracts from various cell lines, using Syntaxin 6 Antibody.



Western blot analysis of A172 lysate (lane1) and immunoprecipitates generated in the absence or presence of A172 cell lysate (lanes 2 and 3), using Syntaxin 6 Antibody both as precipitation and probing antibody.

IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. *Do not aliquot the antibody.*

***Species cross-reactivity is determined by Western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

Background References:

(1) Bock, J.B. et al. (2001) *Nature* 409, 839–841.
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(4) Bock, J.B. et al. (1997) *Mol. Biol. Cell* 8, 1261–1271.
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(6) Perera, H.K. et al. (2003) *Mol. Biol. Cell* 14, 2946–2958.
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Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide
Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.